**ELEMENTA**

**1. DESCRIPTION OF THE PROJECT.**

THIS PROJECT FOCUSES ON THE ELEMENTALS OF ARCHITECTURE. ARCHITECTURAL ESSENTIAL BASIS MEANS ROOF, BEAMS AND PILARS. THOSE ELEMENTS MOVE TO ABSTRACT AS IF THEY WERE THE BEGINING OF CREATION. IN THE CORNERSTONE, IMPORTANCE OF MATERIALS AND THEIR CONSTRUCTION IS ALSO KEY TO UNDERSTAND ITS WHOLE PERCEPTION OF THE IDEA THAT WITH LESS, MUCH MORE IS POSSIBLE.

THIS QUOTE OF SOL LEWITT SUMMARIZES THE ELEMENTALS OF THIS PROJECT: “the ideas need not to be complex. Most ideas that are successful ideas are ludicrously simple. Successful ideas generally have the appearance of simplicity because they seem inevitable”.

WITH THE AIM OF NOT DIVIDING ARCHITECTURE, LANDSCAPE AND GARDENING, A WOODEN SYSTEM OF BEAMS AND PILARS OF ROCKS BROUGHT FROM THE COASTS OF DENMARK SURROUNDS EACH SPACE. IN EVERY ONE OF THEM, DIFFERENT ACTIONS HAPPEN AT THE SAME TIME. FOR INSTANCE, IF IN THE MAIN SQUARES PEOPLE ARE HAVING LUNCH OR LISTENNING TO CONCERTS, NEXT TO THEM A FARMER IS GROWING THE URBAN PRODUCE GARDEN, AND FEW METERS AWAY, CHILDREN ARE HAVING A BATH IN THE ARTIFICIAL POOL… WITH THESE ARCHITECTURAL ELEMENTS, DIFFERENT ATMOSPHERES IN DIFFERENT SPACES AT THE PARK ARE EXPERIENCED BY EVERY VISITOR.

ANOTHER STRATEGY IS THE GENERATION OF NEW SPACES AND WAYS OF LIVING THAT CAN NEVER BE EXPERIENCED IN THE CITY AND IN THE ISLAND BEFORE. A RENOVATION FROM THE INSIDE. AS THIS PARK MAY HAVE THE CHANCE TO CREATE DIFFERENT SITUATIONS, IT PROVIDES THE CHANCE TO EDUCATE IN SEVERAL ASPECTS , SUCH AS GARDENING, RENOVABLE ENERGIES, SPORT (CANOE AND CYCLING), RECYCLING, ART, MUSIC…

DESIGN IS OBVIOUSLY RELATED TO SUSTEINTABILITY. ONE MEASURE IS WATER RUNNING ABOVE HEADS IN THE BEAMS. IT IS CONSTANTLY LISTENING THAT NOISE, WHICH PROVIDES AN ATMOSPHERE UNIQUE IN KOBENHAGEN. ACCORDING TO PETER ZUMTHOR, BUILDING ATMOSPHERES MAY “In a society that celebrates the inessential, architecture can put up a resistance, counteract the waste of forms and meanings and speak its own language”. WIND TOWERS AND WATERMILLS Provide ENERGY, AS THERE WERE ALL ACROSS DENMARK FOR THE PAST CENTURIES. THAT IS WHY AT THE FOREFRONT OF DEVELOPEMENT MUST BE A RETHINKING OF TRADITION TO IMPROVE OUR LIVES TAKING CARE OF ENVIRONMENT, COMING BACKWARDS TO INCREASE FORWARD.

ANOTHER IMPORTANT POINT IS THE URBAN GARDENS, WHICH GIVES THE CITY OTHER OPTION OF SUSTAINABILITY. AN OPTION TO IMPROVE ITS LANDSCAPES.

AT THE END, A NEW LANDSCAPE IN A NEW CITY WHICH IS INCREASING FOR THE FUTURE, WITH DIFFERENT SITUATIONS, FOR ALL AGES, AND WHICH GENERATES ATMOSPHERES IN EACH SPACE. SURROUNDED BY WOODEN BEAMS, A CHANCE TO EXPERIENCE SOMETHING NEW IS POSSIBLE, WITH THE MINIMUM, THE ESSENTIAL.

**2. TECHNOLOGY IN DESIGN.**

OUR WOODEN SYSTEM IS ELEMENTAL. IT CONSISTS IN BEAMS OF DEMOLISHED SLATS SALVAGED FROM DEMOLITION. AS THE DETAIL IN THE SECOND LAYOUT BOARD SHOWS, IS COMPOSED BY A WOODEN TRUSS OF 125X25cm. AND VARIABLE LENGTH. BESIDES, WATER TAKEN FROM THE WATERMILLS FROM THE SEA, RUNS IN THESE BEAMS ALONG THE CHUTE AND LENGTH.

THESE BEAMS ARE HELD BY ROCKS ALL OVER THE PLACE WHICH OBJECTIVE IS BEING THE UNION AMONG THEM. THESE HUGE ROCKS ARE DIRECTLY PUT ON THE LANDSCAPE WITH STEEL BARS OVER AND UNDER THEM.

**3. ESTIMATED ANNUAL KWH.**

THIS PROJECT HAS TWO DIFFERENT KINDS OF ENERGIES. ON ONE SIDE, THE WIND ENERGY IS HELD BY 15 WIND TOWERS. EACH ONE GENERATES 1,5 MW PER YEAR. SO ALL OF THEM GENERATE 22,5 MW/YEAR.

ON THE OTHER HAND, THE HYDRAULIC ENERGY IS BASED ON THE WATERMILLS AND THE STRENGTH WHICH GET DOWN TO MOVE A ROTOR IN THE SEA. IT IS ESTIMATED THAT EACH ONE CAN MAKE 0,4 MW/YEAR. THERE ARE 8 DIFFERENT OF THEM, SO TOTALLY IS 3, 2 MW PER YEAR.

FINALLY, THE AMOUNT IS PRECISELY 25, 8 MW PER YEAR.

**4. DIMENSIONS AND LIST OF PRIMARY MATERIALS USED IN DESIGN.**

THE LENGTH OF THE WOODEN BEAMS IS 1994 m. AND ITS SECTION IS 150X30cm. THERE ARE 68 ROCKS OF APROXIMATELY 250 cm. HEIGHT AND DIAMETER OF 100 cm.

MATERIALS IN BOXES OF PARK ARE PLYWOOD AND COLUMS AND BEAMS OF 15X6 cm. THERE ARE 7 BOXES. SO TOTALLY 584 m. LENGTH OF BEAMS AND COLUMNS AND 244 m2 OF PLYWOOD.

**5. ENVIRONMENTAL IMPACT STATEMENT.**

THIS PROJECT IS TOUGHT TO BE CHANGING WITH THE UPCOMING YEARS.. IT IS NO NEED TO BE MAINTAINED AS IT WAS THE FIRST DAY. THAT MEANS THAT EVERY CHANGE MADE IN ITS STRUCTURE, INFRASTRUCTURE WOULD BE A DECISION MADE BY CITIZENS FOR CITIZENS. IT IS ALSO CONCERNING THAT SUSTAINTABILITY IS NOT ONLY RELATED TO GREEN ENERGIES, BUT IN WAYS TO RETHINK OUR LIVES AND BUILD ON EFFORTS MADE. FOR EXAMPLE, URBAN GARDENING, AS A HOBBY FOR SOME PEOPLE, AND GIVEN TO THOSE WHO NEED FOOD IS A ACURATE POSSIBILITY TO UNDERSTAND SUSTAINTABILITY IN ITS WHOLE SENSE.

DURING CONSTRUCTION, MATERIALS ARE MOST OF THEM TAKEN FROM CONSTRUCTION PROCESSES, AND ALSO SALVAGED FROM DEMOLITION. ROCKS ARE TAKEN FROM THE FUTURE HIGHWAYS IN A CULTURAL AND PROMINENT WAY.

VISUAL CONTAMINATION IS NOT AFFECTED BECAUSE OF THE WIND TOWERS. AS THE HEIGHT OF THE BEAMS IS 150cm. IT CREATES A HUGE BARRIER FOR NOT LOOKING AT THEM DIRECTLY. ANYWAY, THERE ARE COUNTLESS DANISH OAKS AND BEECHES WHICH PROVIDES EXTRA OXIGEN FOR THE CITY AND THE ISLAND OF REFSHALEOEN HOLDING.

IN SHORT, THIS PROJECT IS MORE THAN A SIMPLE WAY TO BE “GREEN”. IT GENERATES THE POSSIBILITY TO BE “GREENER”. IT GIVES THE OPPORTUNITY TO CREATE MORE URBAN GARDENS, ANOTHER GROUP OF TREES CAN BE PLANTED…AND IT CAN BE REMOVED IN CASE IN NOT NEEDED ANYMORE. IS A POLIFUNCTIONAL PROJECT WITH LOTS OF VARIANTS TO BE CONSIDERED ALL ALONG.